

IN THE CLAIMS:

Please amend the claims as follows:

3. (Amended) A method according to claim 1, wherein the influence comprises contact between the mechanically intact or permeabilised living cells and a chemical substance and/or incubation of the mechanically intact or permeabilised living cells with a chemical substance.

4. (Amended) A method according to claim 1, wherein the cells comprise a group of cells contained within a spatial limitation.

5. (Amended) A method according to claim 1, wherein the cells comprises multiple groups of cells contained within multiple spatial limitations.

6. (Amended) A method according to claim 1, wherein the spatial limitations are spatial limitations arranged in one or more arrays on a common carrier.

8. (Amended) A method according to claim 1, wherein the redistribution results in quenching of fluorescence, the quenching being measure as a decrease in the intensity of the fluorescence.

9. (Amended) A method according to claim 1, wherein the redistribution results in energy transfer, the energy transfer being measure as a change in the intensity of the luminescence.'

10. (Amended) A method according to claim 1, wherein the intensity of the light being recorded is a function of the fluorescence lifetime, polarization, wavelength shift, or other property which is modulated as a result of the underlying cellular response.

11. (Amended) A method according to claim 1, wherein the light to be measured passes through a filter which selects the desired component of the light to be measured and rejects other components.

12. (Amended) A method according to claim 1, wherein the fluorescence comes from a fluorophore encoded by and expressed from a nucleotide sequence harboured in the cells.

13. (Amended) A method according to claim 1, wherein the fluorescence comes from a luminescent polypeptide, such as GFP.

14. (Amended) A method according to claim 1, wherein the luminescent polypeptide could be a GFP selected from the group consisting of green fluorescent proteins having the F64L such as F64L-GFP, F64L-Y66H-GFP, F64L-S65T-GFP, and EGFP.

A² concurred.
15. (Amended) A method according to claim 1, wherein the cells are selected from the group consisting of fungal cells, such as yeast cells; invertebrate cells including insect cells; and vertebrate cells, such as mammalian cells.

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17. (Amended) A method according to claim 1, used as a screening program.

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20. (Amended) A set of data relating to an influence on a cellular response in mechanically intact or permeabilised living cells, obtained by a method according to claim 1.
